Banglalink

Banglalink Point Of Sale System [POS]

Design Specification – POS-ESS Integrations

INT103BL - Return Order - Inbound POS to ESS

March 2022 (Release Draft 1)

# **Preface**

This document aims at documenting the integration proposed to be followed at Banglalink for the purpose of INT103BL Integrations.

This document would form the basis for team to start preparing Build for integration and migration of the data as well as rollover to various test environments during this deployment, eventually leading to conversion and integration of data to applications within the specified timelines of the project.

The Integration and Data Conversion Requirements and Strategy document would enable team in the following ways:

* The primary use of this document is to record and communicate the integration and data conversion scope, objectives, approach, and requirements.
* The development team will use this document to communicate the strategy for successfully Integrating to source system between POS and ESS.

This document requires distribution and communication with:

* Banglalink ESS team and POS Team stakeholders, who should understand and sign-off on the integration and conversion requirements and strategy

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# Integration BUSINESS Requirments

## **Integration Definition**

|  |  |
| --- | --- |
| Property | Value |
| Describe this integration | This interface will carry the Return Order information of POS and create a CSV file in a FTP file location. |
| POS | ESS |
| Fusion Functional Area | ESS and External POS System |
| Fusion Process Area | Return order information in POS system for ESS |
| Service/Integration Name | Return order -Inbound FROM POS TO ESS |
| Type of Integration | Scheduled |
| Source | POS |
| Source Connector | CSV File in FTP file location |
| Target | ESS |
| Target Connector | Windows scheduler with .bat file |
| Input to the integration/what triggers this integration | Schedule |
| What do you want to call your integration? | INT103BL |
| Identifier | INT103BL |
| Version | 01.00.0000 |
| Which package does this integration belong to? | ESS – inbound |
| Integration Tool Used | Windows scheduler with .bat file |

## **Purpose of the Integration**

The purpose of the integration is sysncronizing Return Oder information from POS system to ESS. POS system will be soul system to capture Return order information.

And for this intregration, ESS & POS system will be synced with each other so that Return order information updated in both system. INT103BL will facilitates Return Order sysncronization between these both systems.

|  |  |  |
| --- | --- | --- |
| Type | Reference | Short Description |
| Integration | INT103BL | This interface will carry the Return Order information of POS and create a CSV file in a FTP file location |

## **Audience**

This document is primarily aimed at:

* Banglalink POS Team
* ESS Intregration development team

## **Related Documents**

The content of this document is based on the following reference documents.

|  |  |  |
| --- | --- | --- |
| Reference | Description | Version |
|  |  | V1.0 |

## **Integration Design**

This integration provides link between Return order information between POS and ESS.

Note: The yellow boxes indicate integration flow

## **High Level Integration Flow**

* POS system generate a csv file and store it in a FTP file location.
* ESS team wil fetch the CSV file and intregate it into their system.
* ESS system will receive the following information from POS.
  + return\_code,return\_date,distributor\_code,return\_id,return\_child\_id,seq,product\_cod,return\_qty,return\_reason,warehouse\_code,rf\_code,rf\_date.

The below diagram represents the high-level steps/processes for this integration

* Invoke sale order information details from the CSV file
* Map POS to ESS attributes.

**POS system**

**ESS**

**INT103BL – Return Order from POS to ESS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| # | Type | Component | Solution | Schedule Frequency |
| 1 | Integration | Fetching required Return Order information from POS system | Export data as CSV file in FTP file location | Daily |

## **Fields/Parameters Mapping**

Below is the templates and instructions from the user perspective on how the Return order information will need to be populated. The data structure, such as field names, formats, references, are the same for file and needs to be treated as a rule for the source system.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| CSV file column | DB column | Table | DataType | Example |
| return\_code | whreturncode | tblwhreturnmaster | VARCHAR2(30 BYTE) | RT15DHK00368 |
| return\_date | whreturndate | tblwhreturnmaster | DATE | 01/15/2015 |
| distributor\_code | rfraisercode | tblrfraiser | VARCHAR2(100 BYTE) | DHKNAR02 |
| return\_id | whreturnid | tblwhreturnmaster | NUMBER | 368 |
| return\_child\_id | childid | tblwhreturnchild | NUMBER(9,0) | 1 |
| seq | seq | seq | NUMBER | 1 |
| product\_code | productcode | tblproduct | VARCHAR2(50 BYTE) | PRFREG |
| return\_qty | qty | tblwhreturnchild | NUMBER(20,0) | 100 |
| return\_reason | returnreason | tblwhreturnmaster | VARCHAR2(250 BYTE) | Wrongly Lifted Sim |
| warehouse\_code | warehousecode | tblwarehouse | VARCHAR2(30 BYTE) | BLWHDHK |
| rf\_code | issuerfno | tblreturnvalchallen | VARCHAR2(30 BYTE) | DHK111088/DHKNAR02/BLWHDHK |
| rf\_date | rfdate | tblrfmain | DATE | 12/31/2014 |

**SQL Query**: “SELECT DISTINCT

rm.whreturncode AS return\_code

, rm.whreturndate AS return\_date

, r.rfraisercode AS distributor\_code

, rm.whreturnid AS return\_id

, rc.childid AS return\_child\_id

, ROW\_NUMBER() OVER (PARTITION BY rm.whreturnid ORDER BY rc.childid) AS seq

, p.productcode AS product\_code

, rc.qty return\_qty

, rm.returnreason

, w.warehousecode AS warehousecode

, d.issuerfno AS rf\_code

, rf.rfdate AS rf\_date

FROM (SELECT \* FROM tblwhreturnmaster WHERE whreturndate >= '01-Jan-2015') rm

JOIN tblwhreturnchild rc ON rm.whreturnid = rc.whreturnid

JOIN tblrfraiser r ON r.rfraiserid = rm.rfraiserid

JOIN tblproduct p ON p.productid = rc.productid

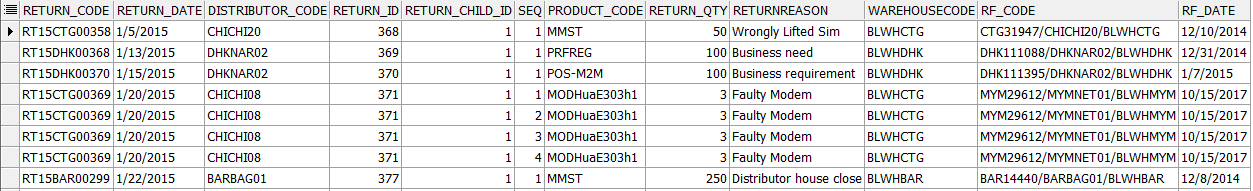
JOIN tblwarehouse w ON w.warehouseid = rm.warehousecenterid

JOIN tblreturnvalchallen d ON d.returnorder = rm.whreturncode AND d.simserialno = rc.simstart

JOIN tblrfmain rf ON rf.rfcode = d.issuerfno

ORDER BY rm.whreturnid, rc.childid”

**Data Template:**



## **Change Record**

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Author | Version | Change Reference |
| 21-03-2022 | Hasib Ahmed Abir | Draft 1a | No Previous Document |
|  |  |  |  |

## **Reviewers**

# **Open Questions**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | Topic | Question | Status | Response |
| 001 |  |  |  |  |